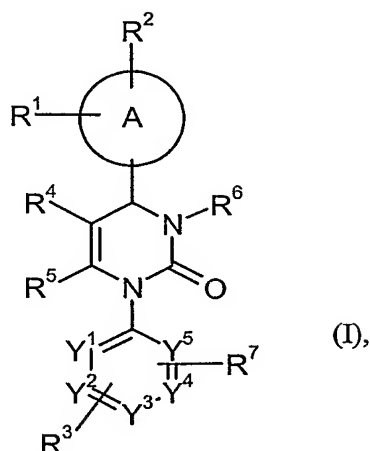


We claim

1. Compounds of the general formula (I)



wherein

- 5 A represents an aryl or heteroaryl ring,
- R^1 , R^2 and R^3 independently from each other represent hydrogen, halogen, nitro, cyano, C_1 - C_6 -alkyl, hydroxy or C_1 - C_6 -alkoxy, wherein C_1 - C_6 -alkyl and C_1 - C_6 -alkoxy can be further substituted with one to three identical or different radicals selected from the group consisting of halogen, hydroxy and C_1 - C_4 -alkoxy,
- 10 R^4 represents trifluoromethylcarbonyl, C_1 - C_6 -alkylcarbonyl, C_1 - C_6 -alkoxycarbonyl, C_2 - C_6 -alkenoxycarbonyl, hydroxycarbonyl, aminocarbonyl, mono- or di- C_1 - C_4 -alkylaminocarbonyl, C_6 - C_{10} -arylaminocarbonyl, arylcarbonyl, heteroarylcarbonyl, heterocyclylcarbonyl, heteroaryl, heterocyclyl or cyano, wherein C_1 - C_6 -alkylcarbonyl, C_1 - C_6 -alkoxycarbonyl, mono- and di- C_1 - C_4 -alkylaminocarbonyl can be
- 15 further substituted with one to three identical or different radicals selected from the group consisting of C_3 - C_8 -cycloalkyl, hydroxy, C_1 - C_4 -alkoxy, C_1 - C_4 -alkoxycarbonyl, hydroxycarbonyl, aminocarbonyl, mono- and di- C_1 - C_4 -alkylaminocarbonyl, C_1 - C_4 -alkylcarbonylamino, *N*-(C_1 - C_4 -alkylcarbonyl)-*N*-(C_1 - C_4 -alkyl)-amino, cyano, amino, mono- and di- C_1 - C_4 -alkylamino, heteroaryl, heterocyclyl and
- 20 tri-(C_1 - C_6 -alkyl)-silyl, and wherein heteroarylcarbonyl, heterocyclylcarbonyl, heteroaryl and heterocyclyl can be further substituted with C_1 - C_4 -alkyl,
- R^5 represents C_1 - C_4 -alkyl, which can be substituted with one to three identical or different radicals selected from the group consisting of halogen, hydroxy, C_1 - C_6 -

alkoxy, C₂-C₆-alkenoxy, C₁-C₆-alkylthio, amino, mono- and di-C₁-C₆-alkylamino, arylamino, hydroxycarbonyl, C₁-C₆-alkoxycarbonyl and the radical -O-C₁-C₄-alkyl-O-C₁-C₄-alkyl,

or

5 R⁵ represents amino,

R⁶ represents

- a group of the formula -T-U wherein

T represents a C₁-C₆-alkanediyl or C₂-C₆-alkenediyl group

and

10 U represents

15 • C₆-C₁₀-aryl or 5- or 6-membered heteroaryl each of which is substituted by one, two or three radicals independently selected from the group consisting of halogen, C₁-C₆-alkyl, 5- or 6-membered heteroaryl and a group of the formula -V-W wherein V represents a bond or a C₁-C₆-alkanediyl or C₂-C₆-alkenediyl group both of which can be further substituted by C₃-C₈-cycloalkyl, and W represents C₁-C₆-alkoxycarbonyl or hydroxycarbonyl,

20 • a group of the formula -C(=O)-NR^a-SO₂-R^b wherein R^a represents hydrogen or C₁-C₆-alkyl, and R^b represents C₁-C₆-alkyl which can be substituted by trifluoromethyl, or R^b represents C₆-C₁₀-aryl which can be substituted by C₁-C₆-alkyl, halogen, cyano, nitro or trifluoromethyl,

• a group of the formula -C(=O)-NR^cR^d wherein R^c represents hydrogen or C₁-C₆-alkyl, and R^d represents C₆-C₁₀-aryl which can be substituted by C₁-C₆-alkoxycarbonyl or hydroxycarbonyl,

25 • a group of the formula -C(=O)-NR^e-OR^f wherein R^e and R^f independently from each other represent hydrogen or C₁-C₆-alkyl,

or

• C₆-C₁₀-arylalkoxy which, in the aryl part, can be substituted by halogen, C₁-C₆-alkyl, C₁-C₆-alkoxycarbonyl or hydroxycarbonyl,

or

R⁶ represents

- 5 - C₃-C₈-cycloalkyl which can be substituted by up to three radicals independently selected from the group consisting of C₁-C₆-alkyl, hydroxy, oxo, C₁-C₆-alkoxy-carbonyl and hydroxycarbonyl,
- C₂-C₆-alkenyl which can be substituted by C₁-C₆-alkoxycarbonyl or hydroxycarbonyl,
- C₁-C₆-alkyl or C₁-C₆-alkylcarbonyl which are substituted by C₁-C₆-alkoxycarbonyl-amino,
- 10 - C₁-C₆-alkoxycarbonyl which is substituted by phenyl-C₁-C₆-alkoxycarbonyl which for its part, in the phenyl moiety, can be further substituted by halogen, C₁-C₆-alkyl, C₁-C₆-alkoxycarbonyl or hydroxycarbonyl,

or

- 15 - a group of the formula -SO₂-R⁸ wherein R⁸ represents C₁-C₆-alkyl which can be substituted by trifluoromethyl, or R⁸ represents C₆-C₁₀-aryl which can be substituted by C₁-C₆-alkyl, halogen, cyano, nitro, trifluoromethyl, C₁-C₆-alkoxy-carbonyl or hydroxycarbonyl,

- 20 R⁷ represents halogen, nitro, cyano, C₁-C₆-alkyl, hydroxy or C₁-C₆-alkoxy, wherein C₁-C₆-alkyl and C₁-C₆-alkoxy can be further substituted with one to three identical or different radicals selected from the group consisting of halogen, hydroxy and C₁-C₄-alkoxy,

and

Y¹, Y², Y³, Y⁴ and Y⁵ independently from each other represent CH or N, wherein the ring contains either 0, 1 or 2 nitrogen atoms,

25 and their salts, hydrates and/or solvates and their tautomeric forms.

2. Compounds of general formula (I) according to Claim 1, wherein

A represents an aryl or heteroaryl ring,

R^1 , R^2 and R^3 independently from each other represent hydrogen, halogen, nitro, cyano, C_1 - C_6 -alkyl, hydroxy or C_1 - C_6 -alkoxy, wherein C_1 - C_6 -alkyl and C_1 - C_6 -alkoxy can be further substituted with one to three identical or different radicals selected from the group consisting of halogen, hydroxy and C_1 - C_4 -alkoxy,

R^4 represents C_1 - C_6 -alkylcarbonyl, C_1 - C_6 -alkoxycarbonyl, C_2 - C_6 -alkenoxycarbonyl, hydroxycarbonyl, aminocarbonyl, mono- or di- C_1 - C_4 -alkylaminocarbonyl, C_6 - C_{10} -arylaminocarbonyl, heteroarylcarbonyl, heterocyclylcarbonyl, heteroaryl, heterocyclyl or cyano, wherein C_1 - C_6 -alkylcarbonyl, C_1 - C_6 -alkoxycarbonyl, mono- and di- C_1 - C_4 -alkylaminocarbonyl can be further substituted with one to three identical or different radicals selected from the group consisting of C_3 - C_8 -cycloalkyl, hydroxy, C_1 - C_4 -alkoxy, C_1 - C_4 -alkoxycarbonyl, hydroxycarbonyl, aminocarbonyl, mono- and di- C_1 - C_4 -alkylaminocarbonyl, C_1 - C_4 -alkylcarbonylamino, amino, mono- and di- C_1 - C_4 -alkylamino, heteroaryl, heterocyclyl and tri- $(C_1$ - C_6 -alkyl)-silyl,

R^5 represents C_1 - C_4 -alkyl, which can be substituted with one to three identical or different radicals selected from the group consisting of halogen, hydroxy, C_1 - C_6 -alkoxy, C_2 - C_6 -alkenoxyl, C_1 - C_6 -alkylthio, amino, mono- and di- C_1 - C_6 -alkylamino, arylamino, hydroxycarbonyl, C_1 - C_6 -alkoxycarbonyl and the radical $-O$ - C_1 - C_4 -alkyl- O - C_1 - C_4 -alkyl,

R^6 represents

— a group of the formula $-T-U$ wherein

T represents a C_1 - C_4 -alkanediyl or C_2 - C_4 -alkenediyl group

and

U represents

- C_6 - C_{10} -aryl or 5- or 6-membered heteroaryl each of which is substituted by one, two or three radicals independently selected from the group consisting of halogen, C_1 - C_6 -alkyl, 5- or 6-membered heteroaryl and a group of the formula $-V-W$ wherein V represents a bond, a C_2 - C_6 -alkenediyl group or a C_1 - C_6 -alkanediyl group the latter of which can be further substituted by C_3 - C_8 -cycloalkyl, and W represents C_1 - C_6 -alkoxycarbonyl or hydroxycarbonyl,

- a group of the formula $-C(=O)-NH-SO_2-R^b$ wherein R^b represents C_1-C_6 -alkyl which can be substituted by trifluoromethyl, or R^b represents C_6-C_{10} -aryl which can be substituted by C_1-C_6 -alkyl, halogen, cyano, nitro or trifluoromethyl,

5

or

- a group of the formula $-C(=O)-NHR^d$ wherein R^d represents C_6-C_{10} -aryl which can be substituted by C_1-C_6 -alkoxycarbonyl or hydroxycarbonyl,

or

 R^6 represents

10

- C_3-C_8 -cycloalkyl which can be substituted by up to three radicals independently selected from the group consisting of C_1-C_6 -alkyl, hydroxy, oxo, C_1-C_6 -alkoxy-carbonyl and hydroxycarbonyl,

or

15

- C_2-C_6 -alkenyl which can be substituted by C_1-C_6 -alkoxycarbonyl or hydroxycarbonyl,

R^7 represents halogen, nitro, cyano, C_1-C_6 -alkyl, hydroxy or C_1-C_6 -alkoxy, wherein C_1-C_6 -alkyl and C_1-C_6 -alkoxy can be further substituted with one to three identical or different radicals selected from the group consisting of halogen, hydroxy and C_1-C_4 -alkoxy,

20

and

Y^1 , Y^2 , Y^3 , Y^4 and Y^5 independently from each other represent CH or N, wherein the ring contains either 0, 1 or 2 nitrogen atoms.

3. Compounds of general formula (I) according to Claim 1, wherein

A represents a phenyl, naphthyl or pyridyl ring,

25

R^1 , R^2 and R^3 independently from each other represent hydrogen, fluoro, chloro, bromo, nitro, cyano, methyl, ethyl, trifluoromethyl or trifluoromethoxy,

- 5 R^4 represents C_1 - C_6 -alkylcarbonyl, C_1 - C_6 -alkoxycarbonyl, allyloxycarbonyl, hydroxycarbonyl, aminocarbonyl, mono- C_1 - C_4 -alkylaminocarbonyl, furylcarbonyl, pyridylcarbonyl or cyano, wherein C_1 - C_6 -alkylcarbonyl, C_1 - C_6 -alkoxycarbonyl and mono- C_1 - C_4 -alkylaminocarbonyl can be substituted with one to three identical or different radicals selected from the group consisting of C_3 - C_6 -cycloalkyl, hydroxy, C_1 - C_4 -alkoxy, C_1 - C_4 -alkoxycarbonyl, hydroxycarbonyl, amino, mono- and di- C_1 - C_4 -alkylamino,
- R^5 represents methyl or ethyl,
- R^6 represents
- 10 – a group of the formula -T-U wherein
- T represents a C_1 - C_4 -alkanediyl group
- and
- U represents
- 15 • phenyl, furyl, thienyl, oxazolyl, thiazolyl or pyridyl each of which is substituted by one or two radicals independently selected from the group consisting of fluoro, chloro, bromo, C_1 - C_4 -alkyl, thienyl, pyridyl and a group of the formula -V-W wherein V represents a bond or a C_1 - C_4 -alkanediyl or C_2 - C_4 -alkenediyl group, and W represents C_1 - C_4 -alkoxycarbonyl or hydroxycarbonyl,
- 20 • a group of the formula -C(=O)-NH-SO₂-R^b wherein R^b represents C_1 - C_4 -alkyl which can be substituted by trifluoromethyl, or R^b represents phenyl which can be substituted by C_1 - C_4 -alkyl, fluoro, chloro, bromo, cyano, nitro or trifluoromethyl,
- or
- 25 • a group of the formula -C(=O)-NHR^d wherein R^d represents phenyl which can be substituted by C_1 - C_4 -alkoxycarbonyl or hydroxycarbonyl,
- or
- R^6 represents

- C₃-C₆-cycloalkyl which can be substituted by up to two radicals independently selected from the group consisting of C₁-C₄-alkyl, hydroxy, oxo, C₁-C₄-alkoxy-carbonyl and hydroxycarbonyl,

or

- 5 – C₂-C₄-alkenyl which is substituted by C₁-C₄-alkoxycarbonyl or hydroxycarbonyl,

R⁷ represents halogen, nitro, cyano, trifluoromethyl, trifluoromethoxy, methyl or ethyl,

and

Y¹, Y², Y³, Y⁴ and Y⁵ each represent CH.

- 10 4. Compounds of general formula (I) according to Claim 1, wherein

A represents a phenyl or a pyridyl ring,

R¹ and R³ each represent hydrogen,

R² represents fluoro, chloro, bromo, nitro or cyano,

- 15 R⁴ represents cyano, hydroxycarbonyl, furylcarbonyl, pyridylcarbonyl, C₁-C₄-alkyl-carbonyl or C₁-C₄-alkoxycarbonyl, wherein C₁-C₄-alkylcarbonyl and C₁-C₄-alkoxy-carbonyl can be substituted with a radical selected from the group consisting of hydroxy, C₁-C₄-alkoxy, C₁-C₄-alkoxycarbonyl, hydroxycarbonyl, mono- and di-C₁-C₄-alkylamino,

R⁵ represents methyl,

- 20 R⁶ represents

- a group of the formula -T-U wherein

T represents a -CH₂- group

and

U represents

5 • phenyl, furyl or oxazolyl each of which is substituted by one or two radicals independently selected from the group consisting of fluoro, chloro, bromo, C₁-C₄-alkyl and a group of the formula -V-W wherein V represents a bond, a -CH₂- group or a -CH=CH- group, and W represents C₁-C₄-alkoxycarbonyl or hydroxycarbonyl,

 • a group of the formula -C(=O)-NH-SO₂-R^b wherein R^b represents C₁-C₄-alkyl which can be substituted by trifluoromethyl, or R^b represents phenyl which can be substituted by C₁-C₄-alkyl, fluoro, chloro, bromo, cyano, nitro or trifluoromethyl,

10 or

 • a group of the formula -C(=O)-NHR^d wherein R^d represents phenyl which can be substituted by C₁-C₄-alkoxycarbonyl or hydroxycarbonyl,

or

R⁶ represents

15 - C₃-C₆-cycloalkyl which can be substituted by up to two radicals independently selected from the group consisting of C₁-C₄-alkyl, hydroxy, oxo, C₁-C₄-alkoxycarbonyl and hydroxycarbonyl,

or

20 - a -CH=CH- group which is substituted by C₁-C₄-alkoxycarbonyl or hydroxycarbonyl,

R⁷ represents trifluoromethyl or nitro,

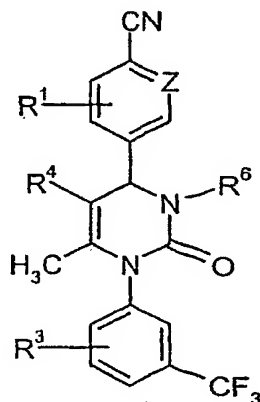
and

Y¹, Y², Y³, Y⁴ and Y⁵ each represent CH.

25 5. Compounds of general formula (I) according to any of the preceding claims, wherein A is phenyl or pyridyl.

6. Compounds of general formula (I) according to any of the preceding claims, wherein R¹ is hydrogen.

7. Compounds of general formula (I) according to any of the preceding claims, wherein R^2 is cyano.
8. Compounds of general formula (I) according to any of the preceding claims, wherein R^3 is hydrogen.
9. Compounds of general formula (I) according to any of the preceding claims, wherein R^4 is C_1 - C_4 -alkoxycarbonyl optionally substituted by hydroxy, or wherein R^4 is C_1 - C_4 -alkylcarbonyl, hydroxycarbonyl or cyano.
10. Compounds of general formula (I) according to any of the preceding claims, wherein R^5 is methyl.
11. Compounds of general formula (I) according to any of the preceding claims, wherein R^7 is trifluoromethyl or nitro.
12. Compounds of general formula (IA)



(IA),

wherein

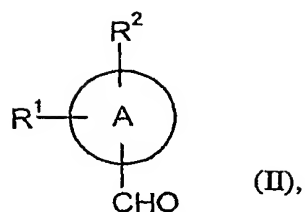
- 15 Z represents CH or N, and

R^1 , R^3 , R^4 and R^6 have the meaning indicated in any of the preceding claims.

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12.

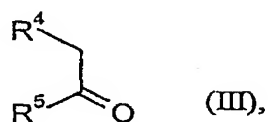
Process for synthesizing the compounds of general formula (I) according to Claim 1, by condensing compounds of general formula (II)

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wherein A, R¹ and R² have the meaning indicated in Claim 1,

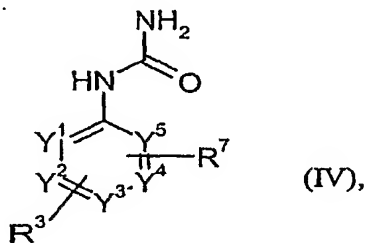
with compounds of general formula (III)



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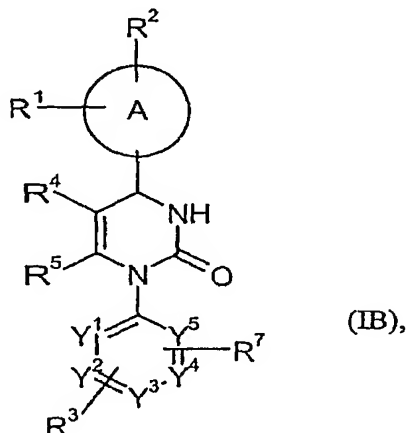
wherein R⁴ and R⁵ have the meaning indicated in Claim 1,

and compounds of general formula (IV)



wherein R³, R⁷, and Y¹ to Y⁵ have the meaning indicated in Claim 1,

to give compounds of the general formula (IB)

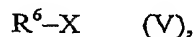


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wherein A, R¹ to R⁵, R⁷, and Y¹ to Y⁵ have the meaning indicated in Claim 1,

followed by reaction of the compounds of general formula (IB) with compounds of the general formula (V)



5 wherein

R⁶ has the meaning indicated in Claim 1, and

X represents a leaving group,

in the presence of a base.

10 ^{14.}
~~13.~~ The composition containing at least one compound of general formula (I) according to Claim 1 and a pharmacologically acceptable diluent.

^{15.}
~~14.~~ A composition according to Claim 14 for the treatment of acute and chronic inflammatory, ischaemic and/or remodelling processes.

15 ^{16.}
~~15.~~ The process for the preparation of compositions according to Claim 14 and 15 characterized in that the compounds of general formula (I) according to Claim 1 together with customary auxiliaries are brought into a suitable application form.

^{17.}
~~16.~~ Use of the compounds of general formula (I) according to Claim 1 for the preparation of medicaments.

^{18.}
~~17.~~ Use according to Claim 17 for the preparation of medicaments for the treatment of acute and chronic inflammatory, ischaemic and/or remodelling processes.

20 ^{19.}
~~18.~~ Use according to Claim 18, wherein the process is chronic obstructive pulmonary disease, acute coronary syndrome, acute myocardial infarction or development of heart failure.

25 ^{20.}
~~19.~~ Process for controlling chronic obstructive pulmonary disease, acute coronary syndrome, acute myocardial infarction or development of heart failure in humans and animals by administration of a neutrophil elastase inhibitory amount of at least one compound of general formula (I) according to Claim 1.